

*EQ: How do you create and utilize stem-and-leaf and box-and-whisker plots?*

A stem-and-leaf plot is made two parts: the \_\_\_\_\_ and the \_\_\_\_\_.

The \_\_\_\_\_ represents the rightmost digit in the number.

The \_\_\_\_\_ represents the other digits.

A stem-and-leaf plot needs a \_\_\_\_\_ so anyone knows how to read the numbers.

A box-and-whisker plot is made of two parts: the \_\_\_\_\_ and the \_\_\_\_\_.

When creating a box-and-whisker plot, always include a \_\_\_\_\_.

Box-and-whisker plots show the following three for a set of data:

- 1.
- 2.
- 3.

The upper and lower quartiles are just \_\_\_\_\_ of the upper and lower halves of the data set.

Steps for entering data in a TI-83/TI-84:

Example 1: For the following set of data, create a stem-and-leaf plot.

13	25	43	50	23	33	31	24	54	11
3	26	46	43	23	45	14	19	29	21
			25	43	12	15			

Example 2: Refer back to the data from example 1. Create a box-and-whisker plot for the information. Then, state the maximum, minimum, median, upper quartile, and lower quartile.

13 25 43 50 23 33 31 24 54 11 3 26 46 43 23 45 14 19 29 21 25 43 12 15

Steps for a box-and-whisker plot in a TI-83/TI-84: